

ABSTRACT OF THE DISCLOSURE

Methods of analyzing pore structure in a microporous polyolefin film comprise applying a detectable material to one surface of a microporous polyolefin film, wherein the detectable material is capable of traveling through pores in the film, and focusing a confocal microscope at a depth within the film to obtain a first image of the detectable material within pores of the film at the depth within the film. Three-dimensional images of pore structure within a microporous polyolefin film comprise a plurality of aligned confocal microscope images wherein each confocal microscope image comprises a two-dimensional image of pore structure at a depth within the film.

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